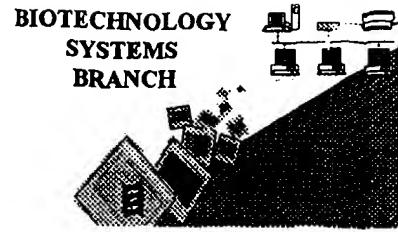


RAW SEQUENCE LISTING  
ERROR REPORT

*R. Haynes*



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

09/489,760B

Source:

1600

Date Processed by STIC:

10-29-03

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/2003):  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/2003

## Raw Sequence Listing Error Summary

### ERROR DETECTED

### SUGGESTED CORRECTION

SERIAL NUMBER: 09/489,760 B

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleic Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line **not exceed** 72 characters in length. This includes white spaces.
- 3 Misaligned Amino Numbering The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use **space characters**, instead.
- 4 Non-ASCII The submitted file was **not saved** in ASCII(DOS) text, as **required** by the Sequence Rules. Please ensure your subsequent submission is **saved in ASCII text**.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one **residue**. **Per Sequence Rules**, each n or Xaa **can only represent a single residue**. Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)                   . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the **mandatory** <220>-<223> sections for **Artificial or Unknown sequences**.
- 7 Skipped Sequences (OLD RULES) Sequence(s) missing. If **intentional**, please insert the following lines for **each** skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
This sequence is intentionally skipped  
  
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.
- 8 Skipped Sequences (NEW RULES) Sequence(s) missing. If **intentional**, please insert the following lines for **each** skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000
- 9 Use of n's or Xaa's (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Per 1.823 of Sequence Rules, use of <220>-<223> is **MANDATORY** if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213> Response Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.  
Use of <220> to <223> is **MANDATORY** if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n/Xaa "n" **can only represent a single nucleotide**; "Xaa" **can only represent a single amino acid**



1600

**RAW SEQUENCE LISTING** DATE: 10/29/2003  
 PATENT APPLICATION: US/09/489,760B TIME: 10:35:51

Input Set : A:\SEQLIST.CRF.txt  
 Output Set: N:\CRF4\10292003\I489760B.raw

3 <110> APPLICANT: Goulmy, Elsa A.J.M  
 4 Hunt, Donald F  
 5 Engelhard, Victor H  
 7 <120> TITLE OF INVENTION: The HIA-1 Antigen  
 9 <130> FILE REFERENCE: 2183-4285US  
 11 <140> CURRENT APPLICATION NUMBER: 09/489,760B  
 12 <141> CURRENT FILING DATE: 2000-01-21  
 14 <150> PRIOR APPLICATION NUMBER: PCT/NL98/00424  
 15 <151> PRIOR FILING DATE: 1998-07-23  
 17 <160> NUMBER OF SEQ ID NOS: 17  
 19 <170> SOFTWARE: PatentIn Ver. 2.1  
 21 <210> SEQ ID NO: 1  
 22 <211> LENGTH: 9  
 23 <212> TYPE: PRT  
 24 <213> ORGANISM: Histocompatibility antigen ; See item 10 on error  
 26 <220> FEATURE: summary report .  
 27 <221> NAME/KEY: MISC\_FEATURE  
 28 <222> LOCATION: (3)..(3)  
 29 <223> OTHER INFORMATION: Xaa is HISTIDINE OR ARGININE RESIDUE  
 31 <400> SEQUENCE: 1  
 W--> 32 Val Leu Xaa Asp Asp Leu Leu Glu Ala  
 33 1 5  
 36 <210> SEQ ID NO: 2  
 37 <211> LENGTH: 9  
 38 <212> TYPE: PRT  
 39 <213> ORGANISM: Histocompatibility antigen  
 41 <400> SEQUENCE: 2  
 42 Val Leu His Asp Asp Leu Leu Glu Ala  
 43 1 5  
 46 <210> SEQ ID NO: 3  
 47 <211> LENGTH: 9  
 48 <212> TYPE: PRT  
 49 <213> ORGANISM: Histocompatibility antigen  
 51 <220> FEATURE:  
 52 <221> NAME/KEY: MISC\_FEATURE  
 53 <222> LOCATION: (2)..(2)  
 54 <223> OTHER INFORMATION: Xaa is ISOLEUCINE OR LEUCINE  
 56 <400> SEQUENCE: 3  
 W--> 57 Tyr Xaa Thr Asp Arg Val Met Thr Val  
 58 1 5  
 61 <210> SEQ ID NO: 4  
 62 <211> LENGTH: 9  
 63 <212> TYPE: PRT

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/489,760B

DATE: 10/29/2003

TIME: 10:35:51

Input Set : A:\SEQLIST.CRF.txt  
 Output Set: N:\CRF4\10292003\I489760B.raw

64 <213> ORGANISM: Histocompatibility antigen  
 66 <220> FEATURE:  
 67 <221> NAME/KEY: MISC\_FEATURE  
 68 <222> LOCATION: (2)..(7)  
 69 <223> OTHER INFORMATION: Xaa is LEUCINE OR ISOLEUCINE  
 71 <400> SEQUENCE: 4  
 W--> 72 Val Xaa His Asp Asp Xaa Xaa Glu Ala  
 73 1 5  
 76 <210> SEQ ID NO: 5  
 77 <211> LENGTH: 9  
 78 <212> TYPE: PRT  
 79 <213> ORGANISM: KIAA0223 partial complementary DNA  
 81 <400> SEQUENCE: 5  
 82 Val Leu Arg Asp Asp Leu Leu Glu Ala  
 83 1 5  
 86 <210> SEQ ID NO: 6  
 87 <211> LENGTH: 25  
 88 <212> TYPE: DNA  
 89 <213> ORGANISM: Unknown  
 91 <220> FEATURE:  
 92 <223> OTHER INFORMATION: Reverse primer  
 94 <400> SEQUENCE: 6  
 95 gtcctgcat gacgcctgt ctgca 25  
 98 <210> SEQ ID NO: 7  
 99 <211> LENGTH: 24  
 100 <212> TYPE: DNA  
 101 <213> ORGANISM: Unknown  
 103 <220> FEATURE:  
 104 <223> OTHER INFORMATION: Forward primer  
 106 <400> SEQUENCE: 7  
 107 gacgtcgctg aggacatctc ccat 24  
 110 <210> SEQ ID NO: 8  
 111 <211> LENGTH: 25  
 112 <212> TYPE: DNA  
 113 <213> ORGANISM: Unknown  
 115 <220> FEATURE:  
 116 <223> OTHER INFORMATION: Reverse Primer  
 118 <400> SEQUENCE: 8  
 119 gaaggccaca gcaatcgctt ccagg 25  
 122 <210> SEQ ID NO: 9  
 123 <211> LENGTH: 30  
 124 <212> TYPE: DNA  
 125 <213> ORGANISM: Unknown  
 127 <220> FEATURE:  
 128 <223> OTHER INFORMATION: HA-1" allele primer H1  
 130 <400> SEQUENCE: 9  
 131 ccttgagaaa cttaaggagt gtgtqctqca 30  
 134 <210> SEQ ID NO: 10  
 135 <211> LENGTH: 30

Same error

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/489,760B

DATE: 10/29/2003  
TIME: 10:35:51

Input Set : A:\SEQLIST.CRF.txt  
Output Set: N:\CRF4\10292003\I489760B.raw

136 <212> TYPE: DNA  
137 <213> ORGANISM: Unknown  
139 <220> FEATURE:  
140 <223> OTHER INFORMATION: HA-1r allele primer R1  
142 <400> SEQUENCE: 10  
143 ccttggaaaa cttaaggagt gtgtgttgcg 30  
146 <210> SEQ ID NO: 11  
147 <211> LENGTH: 33  
148 <212> TYPE: DNA  
149 <213> ORGANISM: Forward KIAA00223 based PCR primer  
151 <400> SEQUENCE: 11  
152 ccggcatgga cgtcgatcgag gacatctccc atc 33  
155 <210> SEQ ID NO: 12  
156 <211> LENGTH: 30  
157 <212> TYPE: DNA  
158 <213> ORGANISM: Reverse KIAA00223 based PCR primer  
160 <400> SEQUENCE: 12  
161 ctacttcagg ccacagcaat cgtctccagg 30  
164 <210> SEQ ID NO: 13  
165 <211> LENGTH: 38  
166 <212> TYPE: DNA  
167 <213> ORGANISM: Unknown  
169 <220> FEATURE:  
170 <223> OTHER INFORMATION: HA-1-/-  
172 <400> SEQUENCE: 13  
173 gagtgtgtgt tgcatgtacgaa cctccctttag gccccggc 38  
176 <210> SEQ ID NO: 14  
177 <211> LENGTH: 13  
178 <212> TYPE: PRT  
179 <213> ORGANISM: Unknown  
181 <220> FEATURE:  
182 <223> OTHER INFORMATION: HA-1-/-  
184 <400> SEQUENCE: 14  
185 Glu Cys Val Leu Arg Asp Asp Leu Leu Glu Ala Arg Arg  
186 1 5 10  
189 <210> SEQ ID NO: 15  
190 <211> LENGTH: 38  
191 <212> TYPE: DNA  
192 <213> ORGANISM: Unknown  
194 <220> FEATURE:  
195 <223> OTHER INFORMATION: HA-1+/  
197 <400> SEQUENCE: 15  
198 gagtgtgtgc tgcatgtacgaa cctccctttag gccccggc 38  
201 <210> SEQ ID NO: 16  
202 <211> LENGTH: 13  
203 <212> TYPE: PRT  
204 <213> ORGANISM: Unknown  
206 <220> FEATURE:  
207 <223> OTHER INFORMATION: HA-1+/  
208

RAW SEQUENCE LISTING DATE: 10/29/2003  
PATENT APPLICATION: US/09/489,760B TIME: 10:35:51

Input Set : A:\SEQLIST.CRF.txt  
Output Set: N:\CRF4\10292003\I489760B.raw

209 <400> SEQUENCE: 16  
210 Glu Cys Val Leu His Asp Asp Leu Leu Glu Ala Arg Arg  
211 1 5 10  
214 <210> SEQ ID NO: 17  
215 <211> LENGTH: 10  
216 <212> TYPE: PRT  
217 <213> ORGANISM: Unknown  
219 <220> FEATURE:  
220 <223> OTHER INFORMATION: Peptide that can bind recombinant HLA-A2.1 and  
b2microglobulin  
222 <400> SEQUENCE: 17  
223 Phe Leu Pro Ser Asp Cys Phe Pro Ser Val  
224 1 5 10

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/489,760B

DATE: 10/29/2003  
TIME: 10:35:52

Input Set : A:\SEQLIST.CRF.txt  
Output Set: N:\CRF4\10292003\I489760B.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 3  
Seq#:3; Xaa Pos. 2  
Seq#:4; Xaa Pos. 2,6,7

**VERIFICATION SUMMARY**

PATENT APPLICATION: **US/09/489,760B**

DATE: 10/29/2003

TIME: 10:35:52

Input Set : **A:\SEQLIST.CRF.txt**

Output Set: **N:\CRF4\10292003\I489760B.raw**

L:32 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0

L:57 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0

L:72 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0